# THE AMERICAN JOURNAL OF PSYCHOLOGY

EDITED BY

KARL M. DALLENBACH
UNIVERSITY OF TEXAS

AND

M. E. BITTERMAN
BRYN MAWR COLLEGE

E. B. NEWMAN
HARVARD UNIVERSITY

LEO POSTMAN
UNIVERSITY OF CALIFORNIA, BERKELEY

WITH THE COÖPERATION OF

E. G. BORING, Harvard University; W. K. ESTES, Indiana University; J. P. GUILFORD, University of Southern California; HARRY HELSON, Kansas State University; E. R. HILGARD, Stanford University; FRANCIS W. IRWIN, University of Pennsylvania; G. L. KREEZER, Washington University; D. G. MARQUIS, Social Science Research Council; GEORGE A. MILLER, Harvard University; W. C. H. PRENTICE, Swarthmore College; T. A. RYAN, Cornell University.

LIBRARY
EASTERN MICHIGAN UNIVERSITY
YPSILANTI

Vol. LXXIV
MEZES HALL, THE UNIVERSITY OF TEXAS
AUSTIN, TEXAS

Copyright 1961 by Karl M. Dallenbach

# TABLE OF CONTENTS

## Articles and Notes


Babick, A. J., and Murdock, B. B., Jr., The Effect of Repetition on the Retention of Individual Words ..... 596

Barany, J. W., and Greene, J. H., The Force-Platform: Instrument for Selecting and Training Employees ..... 121

Barclay, A., Objective Mediators in Paired-Associate Learning ..... 373

Barnes, E. J., and Manis, M., Learning without Awareness and Mediated Generalization ..... 425

Beck, J., and Shaw, W. A., The Scaling of Pitch by the Method of Magnitude-Estimation ..... 242

Beenken, H. G., and Wilcott, R. C., The Continuous Measurement of Palmar Sweating ..... 619

Behar, I., and Bevan, W., The Perceived Duration of Auditory and Visual Intervals: Cross-Modal Comparison and Interaction ..... 17

Behar, I., Bevan, W., and Maier, B., The Effect of Auditory Stimulation upon the Critical Flicker Frequency for Different Regions of the Visible Spectrum ..... 67

Behrend, E. R., and Bitterman, M. E., Probability-Matching in the Fish ... 542

Bevan, W., and Behar, I., The Perceived Duration of Auditory and Visual Intervals: Cross-Comparison and Interaction ..... 17

Bevan, W., Behar, I., and Maier, B., The Effect of Auditory Stimulation upon the Critical Flicker Frequency for Different Regions of the Visible Spectrum ..... 67

Bitterman, M. E., and Behrend, E. R., Probability-Matching in the Fish ... 542

Bitterman, M. E., Eskin, R. M., and Gonzalez, R. C., Alternating and Random Partial Reinforcement in the Fish, with Some Observations on Asymptotic Resistance to Extinction ..... 561

Bitterman, M. E., Holland, L. R., and Longo, N., The Resistive Sheet: A Gridless and Wireless Shocking Technique ..... 612

Bitterman, M. E., Horner, J. L., and Longo, N., A Shuttle Box for Fish and a Circuit of General Applicability ..... 114

Boring, E. G., The 1961 Meeting of the American Philosophical Society ... 316

Boring, E. G., The 1961 Meeting of the National Academy of Sciences .... 315

Botwinick, J., Husband and Father-in-Law—A Reversible Figure ..... 312

Bourne, L. E., Jr., and Walker, C. W., The Identification of Concepts as a Function of Amounts of Relevant and Irrelevant Information ..... 410

Brogden, W. J., Hoffeld, D. R., and Seidenstein, S., Proficiency in Finger-Tracking as a Function of Number of Fingers ..... 36

Brown, C. C., Love, W., and Royer, F. L., Apparatus for Conditioning and Measuring the Activity of Rats ..... 287

Carlson, V. R., Effects of Sleep-Deprivation and Chlorpromazine on Size-Constancy Judgments ..... 552

Chandler, K. A., The Effects of Monaural and Binaural Tones of Different Intensities on the Visual Perception of Verticality ..... 260

Chorover, S., and Jarvik, M. E., An Apparatus for Self-Adjustment of the Interval in Delayed Alternation by Monkeys ..... 298

Cohen, A., and Starkweather, J. A., Vocal Cues in the Identification of Language ..... 90

Cohen, W., and Corah, N. L., Attention and the Kinesthetic Figural After-Effect ..... 629

CORAH, N. L., and COHEN, W., Attention and the Kinesthetic Figural After-Effect ..... 629
CORSO, J. F., The Quantal Hypothesis and the Threshold of Audibility ..... 191
COSTELLO, C. G., Constant Errors in the Measurement of Kinesthetic Figural After-Effects ..... 473
CRUTCHFIELD, R. S., Edward Chace Tolman: 1886-1959 ..... 135
DALLENBACH, K. M., An Acknowledgment ..... 134, 316
DALLENBACH, K. M., Errata ..... 134, 633
DALLENBACH, K. M., Walter Bowers Pillsbury: 1872-1960 ..... 165
DALLENBACH, K. M., and MCGRADE, M. C., A Bibliography of Walter Bowers Pillsbury ..... 174
DAVIS, J. F., and MALMO, R. B., A Monopolar Method of Measuring Palmar Conductance ..... 106
DAVIS, R. T., Discriminative Performance of Monkeys Irradiated with X-Rays 86
DE SHAZO, D., and EPSTEIN, W., Recency as a Function of Perceptual Oscillation ..... 215
DEWIS, E. V. T., and FOLEY, P. J., Tactual Vernier-Acuity ..... 61
DICKIE, G., Francis Hutcheson and the Theory of Motives ..... 625
DOEHRING, D. G., Accuracy and Consistency of Time-Estimation by Four Methods of Reproduction ..... 27
DOUGLAS, W., Carl Gustav Jung: 1875-1961 ..... 639
EDGINGTON, E. S., A Statistical Test of Cyclical Trends, with Application to Weber's Law ..... 630
ENGEL, G., and PARDUCCI, A., Value of Background in the Specification of the Stimulus for Judgment ..... 569
ENGEN, T., and LIPSITT, L. P., Effects of Presentation of Paired and Single-Stimulus on Discrimination of Length ..... 274
EPSTEIN, W., The Influence of Syntactical Structure on Learning ..... 80
EPSTEIN, W., The Known-Size-Apparent-Distance Hypothesis ..... 333
EPSTEIN, W., and DE SHAZO, D., Recency as a Function of Perceptual Oscillation ..... 215
ERVIN, S. M., Changes with Age in the Verbal Determinants of Word-Association ..... 361
ERVIN, S., Semantic Shift in Bilingualism ..... 233
ESKIN, R. M., BITTERMAN, M. E., and GONZALEZ, R. C., Alternating and Random Partial Reinforcement in the Fish, with Some Observations on Asymptotic Resistance to Extinction ..... 561
ESTES, W. K., Roland Clark Davis: 1902-1961 ..... 633
FARBER, I. E., Thirty-Third Annual Meeting of the Midwestern Psychological Association ..... 676
FILLENBAUM, S., The Effect of a Remote Anchor upon Judgment with a Salient Within-Series Stimulus-Object and with a Free Choice of Scale .. 602
FOLEY, P. J., and DEWIS, E. V. T., Tactual Vernier-Acuity ..... 61
GARDNER, R. A., Multiple-Choice Decision-Behavior with Dummy Choices .. 205
GARDNER, R. A., Immediate and Residual Figural After-Effects in Kinesthesis 457
GARDNER, R. W., and LOHRENZ, L., Attention and Assimilation ..... 607
GHENT, L., Form and Its Orientation: A Child's Eye View ..... 177
GLEITMAN, H., MCKENNA, V. V., and NACHMIAS, J., The Effect of Isolation of Stimuli and Responses in Paired Associates ..... 452
GOFF, W. R., Measurement of Absolute Olfactory Sensitivity in Rats ..... 384
GONZALEZ, R. C., BITTERMAN, M. E., and ESKIN, R. M., Alternating and Random Partial Reinforcement in the Fish, with Some Observations on Asymptotic Resistance to Extinction ..... 561
GONZALEZ, R. C., and SHEPP, B., Simultaneous and Successive Discrimination-Reversal in the Rat ..... 584
GREENE, J. H., and BARANY, J. W., The Force-Platform: Instrument for Selecting and Training Employees ..... 121
GRIFFITH, R. M., and SPARKS, C. H., Eyeblink Conditioning: Photoelectric Pick-up and *EEG* Recording ..... 301

HAKEREM, G., PORTNOY, M., SUTTON, S., and ZUBIN, J., The Effect of Shift of Sensory Modality on Serial Reaction-Time: A Comparison of Schizophrenics and Normals ..... 224
HAWKES, G. R., Cutaneous Discrimination of Electrical Intensity ..... 45
HEINEMANN, E. G., Photographic Measurement of the Retinal Image ..... 440
HODOS, W., STEIN, L., and VALENSTEIN, E. S., A Simplified Electrode-Assembly for Implanting Chronic Electrodes in the Brains of Small Animals 125
HOFFELD, D. R., BROGDEN, W. J., and SEIDENSTEIN, S., Proficiency in Finger-Tracking as a Function of Number of Fingers ..... 36
HOLLAND, L. R., BITTERMAN, M. E., and LONGO, N., The Resistive Sheet: A Gridless and Wireless Shocking Technique ..... 612
HORNER, J. L., BITTERMAN, M. E., and LONGO, N., A Shuttle Box for Fish and a Circuit of General Applicability ..... 114
HOWE, E. S., The Effect of an Increased versus a Decreased Reduction in Shock Used as Incentive ..... 462
JARVIK, M. E., and CHOROVER, S., An Apparatus for Self-Adjustment of the Interval in Delayed Alternation by Monkeys ..... 298
JOHNSON, D. M., Formulation and Reformulation of Figure-Concepts ..... 418
KENNEDY, J. L., Fifty-Seventh Annual Meeting of the Society of Experimental Psychologists ..... 313
KENSHALO, D. R., Fifty-Third Annual Meeting of the Southern Society for Philosophy and Psychology ..... 314
KINNEY, J. A. S., Discrimination in Auditory and Visual Patterns ..... 529
KLING, J. W., and SCHLOSBERG, H., The Uniqueness of Patterns of Skin-Conductance ..... 74
LANGER, J., WAPNER, S., and WERNER, H., The Effect of Danger upon the Experience of Time ..... 94
LEIBOWITZ, H., Apparent Visual Size as a Function of Distance for Mentally Deficient Subjects ..... 98
LIPSITT, L. P., and ENGEN, T., Effects of Presentation of Paired and Single-Stimulus on Discrimination of Length ..... 274
LOCKHEAD, G. R., A Re-evaluation of Evidence of One-Trial Associative Learning ..... 590
LOHRENZ, L., and GARDNER, R. W., Attention and Assimilation ..... 607
LONGO, N., BITTERMAN, M.E., and HOLLAND, L. R., The Resistive Sheet: A Gridless and Wireless Shocking Technique ..... 612
LONGO, N., BITTERMAN, M. E., and HORNER, J. L., A Shuttle Box for Fish and a Circuit of General Applicability ..... 114
LOVE, W., BROWN, C. C., and ROYER, F. L., Apparatus for Conditioning and Measuring the Activity of Rats ..... 287
LYKKEN, D. T., and ROTH, N., Continuous Direct Measurement of Apparent Skin-Conductance ..... 293
LYNN, R., Reversible Perspective as a Function of Stimulus-Intensity ..... 131
MAIER, B., BEHAR, I., and BEVAN, W., The Effect of Auditory Stimulation upon the Critical Flicker Frequency for Different Regions of the Visible Spectrum ..... 67
MALMO, R. B., and DAVIS, J. F., A Monopolar Method of Measuring Palmar Conductance ..... 106
MANIS, M., and BARNES, E. J., Learning without Awareness and Mediated Generalization ..... 425
MARSHALL, L. M., and PARDUCCI, A., Context-Effects in Judgments of Length 576
McGRADE, M. C., and DALLENBACH, K. M., A Bibliography of Walter Bowers Pillsbury ..... 174
McKENNA, V. V., GLEITMAN, H., and NACHMIAS, J., The Effect of Isolation of Stimula and Responses in Paired Associates ..... 452
MURDOCK, B. B., JR., and BABICK, A. J., The Effect of Repetition on the Retention of Individual Words ..... 596
NACHMIAS, J., GLEITMAN, H., and McKENNA, V. V., The Effect of Isolation of Stimuli and Responses in Paired Associates ..... 452

NAFE, J. P., Carl Murchison: 1887-1961 ..... 641
NATSOULAS, T., Principles of Momentum and Kinetic Energy in the Perception of Causality ..... 394
OHWAKI, S., An Investigation of Figural Adaptation: A Study within the Framework of Sensory-Tonic Field-Theory ..... 3
OVER, R., Distance-Constancy ..... 308
PAYNE, M. C., JR., Apparent Weight as a Function of Hues ..... 104
PARDUCCI, A., and ENGEL, G., Value of Background in the Specification of the Stimulus for Judgment ..... 569
PARDUCCI, A., and MARSHALL, L. M., Context-Effects in Judgments of Length 576
PORTNOY, M., HAKEREM, G., SUTTON, S., and ZUBIN, J., The Effect of Shift of Sensory Modality on Serial Reaction-Time: A Comparison of Schizophrenics and Normals ..... 224
POSTMAN, L., Spread of Effect as a Function of Time and Intraserial Similarity ..... 493
PRUTT, D. G., Informational Requirements in Making Decisions ..... 433
PYRON, B., and WYCKOFF, L. B., The Rate of Pecking by Pigeons as a Function of Amount and Frequency of Reinforcement ..... 278
ROSENBERG, S., Retroactive Inhibition in Incidental Learning ..... 283
ROSENZWEIG, M. R., Comparisons among Word-Association Responses in English, French, German, and Italian ..... 347
ROTH, N., and LYKKEN, D. T., Continuous Direct Measurement of Apparent Skin-Conductance ..... 293
ROYER, F. L., BROWN, C. C., and LOVE, W., Apparatus for Conditioning and Measuring the Activity of Rats ..... 287
RUMP, E. E., A Note on 'Attitude and Distance-Estimation as Variables in Size-Matching' ..... 475
RUSH, C. H., Thirty-Second Annual Meeting of the Eastern Psychological Association ..... 632
SCHAIE, K. W., Scaling the Association between Colors and Mood-Tones .... 266
SCHIFF, W., The Effect of Subliminal Stimuli on Guessing-Accuracy ..... 54
SCHLOSBERG, H., and KLING, J. W., The Uniqueness of Patterns of Skin-Conductance ..... 74
SCHWARTZBAUM, J. S., Some Characteristics of 'Amygdaloid Hyperphagia' ... 252
SCHWARTZBAUM, J. S., and WILSON, W. A., Taste-Discrimination in the Monkey ..... 403
SEARS, R. R., Carl Iver Hovland: 1912-1961 ..... 637
SEIDENSTEIN, S., BROGDEN, W. J., and HOFFELD, D. R., Proficiency in Finger-Tracking as a Function of Number of Fingers ..... 36
SHAW, W. A., and BECK, J., The Scaling of Pitch by the Method of Magnitude-Estimation ..... 242
SHEPP, B., and GONZALEZ, R. C., Simultaneous and Successive Discrimination-Reversal in the Rat ..... 584
SHURRAGER, P. S., A Video-Motor Board ..... 129
SIMMEL, M. L., The Absence of Phantoms for Congenitally Missing Limbs .. 467
SIMONEAU, G., An Improved Circuit for Time-on-Target and Integrated Error-Scores in Continuous Tracking ..... 471
SPARKS, C. H., and GRIFFITH, R. M., Eyeblink Conditioning: Photoelectric Pick-Up and *EEG* Recording ..... 301
SPRINGBETT, B. M., The Subjective Edge ..... 101
STARKWEATHER, J. A., and COHEN, A., Vocal Cues in the Identification of Language ..... 90
STEIN, L., HODOS, W., and VALENSTEIN, E. S., A Simplified Electrode-Assembly for Implanting Chronic Electrodes in the Brains of Small Animals ..... 125
STEINMAN, R. M., and WODINSKY, J., Temperature-Control for a Group of Small Aquariums ..... 303
SUTTON, S., HAKEREM, G., PORTNOY, M., and ZUBIN, J., The Effect of Shift Sensory Modality on Serial Reaction-Time: A Comparison of Schizophrenics and Normals ..... 224

TURNBULL, C. M., Some Observations Regarding the Experience and Behavior of the BaMbuti Pygmies ..... 304
VALENSTEIN, E. S., HODOS, W., and STEIN, L., A Simplified Electrode-Assembly for Implanting Chronic Electrodes in the Brains of Small Animals ..... 125
WALKER, C. W., and BOURNE, L. E., JR., The Identification of Concepts as a Function of Amounts of Relevant and Irrevelant Information ..... 410
WAPNER, S., LANGLEY, J., and WERNER, H., The Effect of Danger upon the Experience of Time ..... 94
WARREN, R. M., Illusory Changes in Repeated Words: Differences between Young Adults and the Aged ..... 506
WERNER, H., LANGLEY, J., and WAPNER, S., The Effect of Danger upon the Experience of Time ..... 94
WILCOTT, R. C., and BEENKEN, H. G., The Continuous Measurement of Palmar Sweating ..... 619
WILSON, W. A., and SCHWARTZBAUM, J. S., Taste-Discrimination in the Monkey ..... 403
WODINSKY, J., and STEINMAN, R. M., Temperature-Control for a Group of Small Aquariums ..... 303
WRIGHT, B., 'Goals' and 'Values' Revaluated ..... 310
WYCKOFF, L. B., and PYRON, B., The Rate of Pecking by Pigeons as a Function of Amount and Frequency of Reinforcement ..... 278
YOUNG, R. K., The Stimulus in Serial Verbal Learning ..... 517
ZAJĄC, J. L., Depth-Perception and Astigmatism ..... 133
ZUBIN, J., HAKEREM, G., PORTNOY, M., and SUTTON, S., The Effect of Shift of Sensory Modality on Serial Reaction-Time: A Comparison of Schizophrenics and Normals ..... 224

## BOOK REVIEWS

(The reviewer's name appears in parentheses after the title of the work.)

ABRAHAMSON, H. A. (ed.), Transactions: Fifth Conference on Neuropharmacology, Princeton, New Jersey, 1959 (A. C. Goldstein) ..... 659
ALFONSO, P. G., and BIEDMA, C. J., Die Sprache der Zeichnung (M. F. Meyer) ..... 159
ATTNEAVE, F., Applications of Information Theory to Psychology: A Summary of Basic Concepts, Methods, and Results (J. E. Hochberg) ..... 319
BAKER, H. J., Introduction to Exceptional Children (F. S. Freeman) ..... 161
BATTERSBY, W. S., BENDER, M. B., and TEUBER, H.-L., Visual Field Defects after Penetrating Missile Wounds of the Brain (H. P. Zeigler) .. 479
BEACH, F. A., *et al.*, The Neuropsychology of Lashley: Selected Papers of K. S. Lashley (J. Orbach) ..... 144
BENDER, M. B., BATTERSBY, W. S., and TEUBER, H.-L., Visual Field Defects after Penetrating Missile Wounds of the Brain (H. P. Zeigler) .. 479
BENSON, O. O., and STRUGHOLD, H., (ed.), Physics and Medicine of the Atmosphere and Space (R. A. McFarland) ..... 480
BETTSCHART, W., *et al.*, Seelische Gesundheit (M. F. Meyer) ..... 160
BIDERMAN, A. D., and ZIMMER, H. (ed.), The Manipulation of Human Behavior (J. Capehart) ..... 651
BIEDMA, C. J., and ALFONSO, P. G., Die Sprache der Zeichnung (M. F. Meyer) ..... 159
BINDRA, D., Motivation: A Systematic Reinterpretation (W. W. Lambert) 323
BONNER, H., Group Dynamics: Principles and Applications (L. Meltzer) .. 155
CALDER-MARSHALL, A., The Sage of Sex: A Life of Havelock Ellis (F. A. Beach) ..... 151
CAMPBELL, A., CONVERSE, P. E., *et al.*, The American Voter (M. B. Smith) 648
COLE, L., Psychology of Adolescence (F. S. Freeman) ..... 157
CONVERSE, P. E., CAMPBELL, A., *et al.*, The American Voter (M. B. Smith) 648
CORBIN, A., and LAZO, H., Management in Marketing (H. Meltzer) ..... 661

DELLIS, N. P., and STONE, H. K. (ed.), The Training of Psychotherapists (A. E. Grigg) ..... 658
DE MARTINO, M. F., Dreams and Personality Dynamics (J. Block) ..... 162
DEMBER, W. N., The Psychology of Perception (J. Beck) ..... 478
EDWARDS, A. L., Experimental Design in Psychological Research (R. E. Morin ..... 653
FITZSIMONS, R. M., and MURPHY, A. T., Stuttering and Personality Dynamics: Play Therapy, Projection Therapy, and Counseling (R. West) ..... 483
FREUD, E. L., Letters of Sigmund Freud (E. F. Gildea) ..... 328
FULLER, J. L., and THOMPSON, W. R., Behavior Genetics (J. Hirsch) .... 147
GARNER, A. M., and WENAR, C., The Mother-Child Interaction in Psychosomatic Disorders (H. B. Robinson) ..... 154
GOODENOUGH, F. L., and TYLER, L. E., Developmental Psychology: An Introduction to the Study of Human Behavior (F. S. Freeman) ..... 160
GULLIKSEN, H., and MESSICK, S. (ed.), Psychological Scaling: Theory and Application (W. E. Michael) ..... 655
HALLMAN, R. J., Psychology of Literature: A Study of Alienation and Tragedy (D. M. Johnson) ..... 662
HAMMER, E. F., Creativity (J. P. Guilford) ..... 663
HEBB, D. O., *et al.*, The Neuropsychology of Lashley: Selected Papers of K. S. Lashley (J. Orbach) ..... 144
HEJNA, R. F., Speech Disorders and Nondirective Therapy: Client-Centered Counseling and Play Therapy (R. West) ..... 664
HIRST, R. J., The Problems of Perception (R. B. MacLeod) ..... 663
HOFFMAN, I. R., and MANN, F. C., Automation and the Worker: A Study of Social Change in Power Plants (R. Stagner) ..... 657
HURLOCK, E., Development Psychology (C. P. Melville) ..... 325
ITTELSON, W. H., Visual Space Perception (O. W. Smith) ..... 486
JENNINGS, E. E., Anatomy of Leadership: Princes, Heroes and Supermen (B. M. Bass) ..... 322
JERSILD, A. T., Child Psychology (F. S. Freeman) ..... 161
JOHNSON, W., Stuttering and What You Can Do About It (O. Bloodstein) 661
KAPLAN, H. M., Anatomy and Psychology of Speech (J. G. Sheehan) ..... 327
KLAUSMEIER, H. J., *et al.*, Psychology in Theory and Practice (J. V. Tobias) 158
KOCH, S. (ed.), Psychology: A Study of a Science: Study 1. Conceptual and Systematic. Vol. 2. General Systematic Formations. Learning, and Special Processes (E. J. Gibson) ..... 142
KOCH, S. (ed.), Psychology: A Study of a Science: Study 1. Conceptual and Systematic, Vol. 3. Formulations of the Person and the Social Context (F. Fearing) ..... 643
LANGE, L., The Importance of Wearing Clothes (M. S. Ryan) ..... 161
LANGFORD, L. M., Guidance of the Young Child (L. M. Stolz) ..... 489
LAWSON, R., Learning and Behavior (C. A. Boneau) ..... 660
LAZO, H., and CORBIN, A., Management in Marketing (H. Meltzer) ..... 661
LUCHINS, A. S., and LUCHINS, E. H., Rigidity of Behavior: A Variational Approach to the Effect of *Einstellung* (I. R. Pierce) ..... 326
MACK, S. F., Elementary Statistics (H. W. Hake) ..... 327
MANN, F. C., and HOFFMANN, I. R., Automation and the Worker: A Study of Social Change in Power Plants (R. Stagner) ..... 657
MARCUSE, F. L., Hypnosis: Fact and Fiction (G. H. Estabrooks) ..... 160
MCGREGOR, D., The Human Side of Enterprise (R. Stagner) ..... 317
MENG, H., *et al.*, Seelische Gesundheit (M. F. Meyer) ..... 160
MESSICK, S., and GULLIKSEN, H. (ed.), Psychological Scaling: Theory and Application (W. E. Michael) ..... 655
MILLER, D. R., and SWANSON, G. E., Inner Conflict and Defense (I. L. Child) 491
MILLER, W. E., STOKES, D. E., *et al.*, The American Voter (M. B. Smith) 648
MORGAN, C. T., *et al.*, The Neuropsychology of Lashley: Selected Papers of K. S. Lashley (J. Orbach) ..... 144
MURPHY, A. T., and FITZSIMONS, R. M., Stuttering and Personality Dynamics: Play Therapy, Projection Therapy, and Counseling (R. West) ..... 483

MYKLEBUST, H. R., The Psychology of Deafness (P. Worchel) ..... 490
NISSEN, H. W., *et al.*, The Neuropsychology of Lashley: Selected Papers of K. S. Lashley (J. Orbach) ..... 144
PATTERSON, C. H., Counseling and Psychotherapy: Theory and Practice (L. J. Braaten) ..... 149
RICKERS-OVSIANSKINA, M. A. (ed.), Rorschach Psychology (F. S. Freeman) 482
RINGNESS, T. A., *et al.*, Psychology in Theory and Practice (J. V. Tobias) .. 158
SCHELLING, T. C., The Strategy of Conflict (R. D. Luce) ..... 485
SCHULZ, R. W., and UNDERWOOD, B. J., Meaningfulness and Verbal Learning (W. F. Battig) ..... 656
SIDMAN, M., Tactics of Scientific Research: Evaluating Experimental Data in Psychology (H. N. Peters) ..... 484
SINGER, A. J., JR., *et. al.*, Psychology in Theory and Practice (J. V. Tobias) 158
STEIN, E., Seelische Gesundheit (M. F. Meyer) ..... 160
STOKES, D. E., *et al.*, The American Voter (M. B. Smith) ..... 648
STONE, H. K., and DELLIS, N. P. (ed.), The Training of Psychotherapists (A. E. Grigg) ..... 658
STRUGHOLD, H., and BENSON, O. O. (ed.), Physics and Medicine of the Atmosphere and Space (R. A. McFarland) ..... 480
SWANSON, G. E., and MILLER, D. R., Inner Conflict and Defense (I. L. Child) ..... 491
TEUBER, H.-L., *et al.*, Visual Field Defects after Penetrating Missile Wounds of the Brain (H. P. Zeigler) ..... 479
THOMPSON, W. R., and FULLER, J. L., Behavior Genetics (J. Hirsch) ..... 147
TYLER, L. E., and GOODENOUGH, F. L., Developmental Psychology: An Introduction to the Study of Human Behavior (F. S. Freeman) ..... 160
UNDERWOOD, B. J., and SCHULZ, R. W., Meaningfulness and Verbal Learning (W. F. Battig) ..... 656
WENAR, C., and GARNER, A. M[illegible]e Mother-Child Interaction in Psychomatic Disorders (H. B. Robi[illegible]) ..... 154
WILLNER, D. (ed.), Decisions, V[illegible] and Groups (R. M. Gagné) ..... 487
ZIMMER, H., and BIDERMAN, A. [illegible], The Manipulation of Human Behavior (J. Capehart) ..... 651